

TO ALL TO WHOM THESE: PRESENTS SHALL COME:

Northrup King Co.

Withereas. There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT FTY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN

1779

In Testimony Wathereof, I have hereunto set my hand and caused the seal of the Elaut Variety Protection Office to be affixed at the City of Washington, D. C. this 31st day of August the year of our Lord one thousand nine hundred and eighty-seven.

Agricultural Marketing Service

U.S. DEPARTMENT OF AGRICULTURE				FORM APPROVED: OMB NO. 0581-0055			
AGRICULTURAL MARKETING SERVICE				Application is required in order to determine if a plant variety protection certificate is to			
APPLICATION FOR PLANT VARI	ETY PROTE	CTION CERTIFICATE	be iss	ued (7 U.S.C. 2421). Information is confidential until certificate is issued S.C. 2426).			
1. NAME OF APPLICANT(S)	· <u>····································</u>	2. TEMPORARY DESIGNATION	3. V	ARIETY NAME			
Northwen Ving Co		17002		779			
Northrup King Co.	17:-0-4-1	L7903	+	FOR OFFICIAL USE ONLY			
4. ADDRESS (Street and No. or R.F.D. No., City, Sta	te, and Zip Code)	5. PHONE (Include area code)	PVPC	NUMBER			
P.O. Box 959				8700041			
Minneapolis, MN 55440		(612) 593-7305		0700041			
6. GENUS AND SPECIES NAME	7. FAMILY NA	ME (Botanical)	<u>ల</u>	DATE 2 1987			
Zea mays L. Gra		inae		June 2:00 DA.M. 14P.M.			
8. KIND NAME	9.	DATE OF DETERMINATION		AMOUNT FOR FILING			
				\$ /800 =			
Corn		February 1983	RECEIVED	Janary 2,1987			
10. IF THE APPLICANT NAMED IS NOT A "PERSO	N," GIVE FORM	OF ORGANIZATION (Corporation	, ä	MOUNT FOR CERTIFICATE			
partnership, association, etc.)			FEES	\$ 200			
Corporation			<u> </u>	DATE () 1987			
11. IF INCORPORATED, GIVE STATE OF INCORP	ORATION	· · · · · · · · · · · · · · · · · · ·	12.	DATE OF INCORPORATION			
Delaware				1896			
13. NAME AND ADDRESS OF APPLICANT REPRE	SENTATIVE(S),	IF ANY, TO SERVE IN THIS APPL	CATIO	N AND RECEIVE ALL PAPERS			
Robert Romig							
Northrup King Co.							
P.O. Box 959		PHONE (Include a	rea code	e): (612) 593-7305			
Minneapolis, MN 55440 14. CHECK APPROPRIATE BOX FOR EACH ATTA	CHAPAT CHEMA						
a. Exhibit A, Origin and Breeding History of			otectio	n Act.)			
b. Exhibit B. Novelty Statement.	, , , (
c. Exhibit C, Objective Description of Varie	ty (Request forn	n from Plant Variety Protection Off	ice.)				
d. Exhibit D, Additional Description of Var	iety.						
e. Exhibit E, Statement of the Basis of App	licant's Ownersh	ip.					
15. DOES THE APPLICANT(S) SPECIFY THAT SEE SEED? (See Section 83(a) of the Plant Variety Pr		IETY BE SOLD BY VARIETY NAM Yes (If "Yes," answer					
16. DOES THE APPLICANT(S) SPECIFY THAT THI LIMITED AS TO NUMBER OF GENERATIONS?		17. IF "YES" TO ITEM 16, BEYOND BREEDER SE		CLASSES OF PRODUCTION			
☐ Yes ☐ No		Foundation		legistered Certified			
18. DID THE APPLICANT(S) PREVIOUSLY FILE	FOR PROTECT	TION OF THE VARIETY IN THE	J.S.?	Yes (If "Yes," give date)			
				X No			
19. HAS THE VARIETY BEEN RELEASED, OFFE		i i		☐ Voe /If "Voc " give named			
Canada February 1986	Released a	as parent in a hybrid		of countries and dates)			
U.S. February 1986				Mo No			
20. The applicant(s) declare(s) that a viable sam			d with	the application and will be re-			
plenished upon request in accordance with s	-	•					
The undersigned applicant(s) is (are) the own distinct, uniform, and stable as required in Sariety Protection Act.	ner(s) of this se ection 41, and	xually reproduced novel plant vision in the state of the control of the state of the control of the state of the control of th	iriety, ie prov	and believe(s) that the variety is risions of Section 42 of the Plant			
Applicant(s) is (are) informed that false repr	esentation here	in can jeopardize protection and	result	in penalties.			
SIGNATURE OF APPLICANT	-		E	DATE			
Nobet W. Nome				December 29, 1986			
SIGNATURE OF APPLICANT				DATE			
				1			
			1				

EXHIBIT A

Origin and Breeding History of Corn 779

We developed the inbred corn (Zea mays L.) line 779 from a cross between CM7-24 and Wll7 which we made at Glen Haven, Wisconsin, in 1967. Our line CM7-24 is derived from a single ear selection from a selfed plant of CM7, a public line which originated from a cross W85/CMV3 made at the Agriculture Canada Research Station at Morden, Manitoba. Line Wll7, also a public line, originated from a cross 643/Minnesota 13 made at the Wisconsin Agricultural Experiment Station at Madison, Wisconsin.

Following the cross, we selfed in the F_1 to F_6 generations. In 1974, we grew the F_7 (S_6) lines from this process at our London, Ontario site for selection for early silking and good earing. We also made sib crosses within these rows to develop the F_7 (S_6) families. Subsequently, we selfed in the F_8 (S_7) and F_9 (S_8).

On the basis of test cross results, we selected the F_9 (S_8) line L7903 in 1979 as our selection from the cross. Since then, we have maintained the line by selfing.

We further tested line L7903 in various hybrid combinations and at various locations from 1980 to 1982. On the basis of performance in these trials, we changed the station number L7903 to the company number 779 in February 1983 when we decided to develop breeder seed of this inbred corn variety.

The corn inbred 779 is a stable and uniform variety. We have observed no variants in four years of increase.

We first offered 779 for sale in February 1986 as a parent in one of our hybrids.

EXHIBIT B

Novelty Statement for the Variety

779 is most similar to Wll7, a line released from the University of Wisconsin. It can be differentiated from Wll7 by the following characteristics:

- 1. Wll7 has pink anthers; 779 has green anthers.
- 2. 779 is an earlier flowering line. Heat units from planting to 50% silk are approximately 125 less for 779 compared to Wll7.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY CORN (ZEA MAYS)

NOTTHIRD King Co. ADDRES (Gives with Re. or R.F.D. No., City, State, and ZIP Code) P.O. BOX 959 Minneapolis, MR 55440 Place the appropriate number that describes the varietal character of this variety in the boxes below. Place are or in first box (*s* [0] 8 [9] or [0] 9] when number is either 99 or less or 9 or less. 1. TYPE: 2. 1 - SWEET 2 - DENT 3 - FLINT 4 - FLOUR 5 - POP 6 - ORNAMENTAL 2. REGION MHERE BEST ADAPTED IN THE U.S.A.: 2. REGION MHERE BEST ADAPTED IN THE U.S.A.: 2. SOUTHENTRAL 6 - SOUTHENST 7 - MOST REGIONS 3. MATURITY (In Region of Best Adaptability): DAYS FROM EMERGENCE TO 50% OF PLANTS IN SILK DAYS FROM SO% SILK TO OPTIMUM EDIBLE QUALITY DAYS FROM SO% SILK TO HARVEST AT 25% KERNEL MOISTURE 1. Number of Tiller: Number of Tiller: Number of Tiller: Number of Ears Par Stalk: 1. 1 - NORM 2. 2 - 12 3 - 2 - 3 4 - > 3 1. 1 - SINGLE 2 - SLIGHT TWO-EAR TENDENCY O'Cytoplasm Type: 1. 1 - NORMAL 2 = "T" 3 - "S" 4 - "C" 5 = OTHER (Specify) 2. LEAF (Falld Corn Inbride Examples Gleen): Color: 2. 1 - LIGHT GREEN (HY) 2 - MEDIUM GREEN (WF9) 3 - DARK GREEN (B14) 4 = VERY DARK GREEN (K Angle from Stalk (Upper half): Sheath Pubacence: 2. 1 - LIGHT GREEN (HY) 2 - FEW (WF9) 3 - MANY (OH7L) 2. 1 - LIGHT (W22) 2 - MEDIUM (WF9) 3 - MANY (PAIT) DAYS FROM SOME EAR PROBLEAF O S OM. WIDEST POINT OF EAR NODE LEAF O S OM. WIDEST POINT OF EAR NODE LEAF O S OM. MIDEST POINT OF EAR NODE LEAF O S OM. MIDEST POINT OF EAR NODE LEAF O S OM. MIDEST POINT OF EAR NODE LEAF	NAME OF APPLICANT(S)	
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Cytoplasm Type: 1	1 1 - SINCU	E 0-CLICHT TWO EAR TENDENCY
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0 5 CM. WIDEST POINT OF EAR NODE LEAF		
	Width: Length:	
	0 5 CM. WIDEST POINT OF EAR NODE LEAF	CM. EAR NODE LEAF
0 8 NUMBER OF LEAVES PER MATURE PLANT		
	0 8 NUMBER OF LEAVES PER MATURE PLANT	, ,
·		4

•	6. TASSEL:								
	0 4	NUMBER OF LATERAL BRANCHES							
	Branch Ang	Angle from Central Spike: Penduncle Length:							
	2	1 = < 30° 2 = 30-40° 3 = > 45°	ES						
	Pollen Shed	#: 							
	2	1 = LIGHT (WF9) 2 = MEDIUM 3 = HEAVY(KY21)							
	5	Anther Color: 1 = YELLOW 2 = PINK 3 = RED 4 = PURPLE 5 = GREEN Glume Color: 6 = OTHER (Specify)							
	Pollen Rest	coration for Cytoplasms (o = Not Tested, 1 = Partial, 2 = Good)							
	0 "т"	0 "S" 0 "C" 0 OTHER (Specify Cytoplasm and degrees of restoration)	·						
	7. EAR (Hus	ked Ear Data Except When Stated Otherwise):	· · · · · · · · · · · · · · · · · · ·						
	1 3	CM LENGTH 3 0 MM. MID-POINT 6 0 GM. WEIGHT							
	Kernel Row	vs:							
	2	1 = INDISTINCT 2 = DISTINCT 1 0 NUMBER							
	2	1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = SPIRAL							
	Silk Color (I	Exposed at Silking Stage):							
	1	1 = GREEN 2 = PINK 3 = SALMON 4 = RED							
	Husk Color:								
	1	FRESH 1 = LIGHT GREEN 2 = DARK GREEN 3 = PINK							
	6	DRY							
	·	Husk Extention: (Harvest Stage) Husk Leaf:							
	2 3 = LO	HORT (Ears Exposed) 2 = MEDIUM (Barely Covering Ear) ONG (8-10CM Beyond Ear Tip) ERY LONG (> 10 CM) 2 = MEDIUM (8-15 CM) 3 = LONG (> 15 CM)							
	Shank:	Position at Dry Husk Stage:							
	1 5	CM LONG 4 NO. OF INTERNODES 3 1 = UPRIGHT 2 = HORIZONTAL 3 = PE	NDENT						
	Taper:	Drying Time (Unhusked Ear):							
	3	1 = SLIGHT 2 = AVERAGE 3 = EXTREME 3 = FA	Ą ST						
8.	KERNEL (D	ried):							
	Size (From E	ar Mid-Point):							
	0 8	MM LONG 0 7 MM, WIDE 0 6 MM, THICK							
	Shape Grade	(% Rounds)							

o. VEUMET	. (0780) :					870	0041
1	Pericarp Color:		6 = LIGHT	HITE CROWN RED	3 = TAN 7 = CHERR	4 = BR(•
		o valleda)	<u> </u>				
1	Aleurone Color:	1 = HOMOZYGO	OUS 2 = SEG	REGATING (Describe)_			
1	7 = PURPLE	8 = PALE PU	3 = TAN RPLE 9 = VA	4 = BROWN RIEGATED (Describe)		5 = BRON	ZE 6 = REC
73	RJS. 6/16/87 Endosperm Color:		2 = PALE YELLOW	3 = YELLOW	4 = PINK-0	PRANGE	5 = WHITE CAP.
Endosper							
3	1 = SWEET (su1) 5 = WAXY STARC		KTRA SWEET (sh2) GH PROTEIN	3 = NORMAL STA 7 = HIGH LYSINE		F = HIGH AMY	LOSE STARCH ecify)
2 0	GM, WEIGHT /100	SEEDS (Unsized	Sample)		•		
9. COB:							
2 0	MM. DIAMETER A	T MID-POINT	_				
Strength:	1 = WEAK	2 = STRONG	[tolor: 1 = WHITE 2 = 5 = VARIEGATED		- RED 4 = OTHER (Specif	BROWN
10. DISEASI	RESISTANCE (O =	Not Tested, 1 = 5	Susceptible, 2 = Resistant):		 	
1 0 0	STALK ROT (Diple NORTHERN LEAF SOUTHERN RUST BACTERIAL LEAF OTHER (Specify)	E BLIGHT	1 STALK ROT (0 SOUTHERN L 0 CORN SMUT 0 MAIZE DWAF	EAF BLIGHT	0 0	STALK ROT	
11. INSECT	RESISTANCT (O = 1	Not Tested, 1 = Su	sceptible, 2 = Resistant):				
0	CORNBORER ROOTWORM (Non-	- 	EARWORM ROOTWORM (Western) OTHER (Specify)	0 SAP	BEETLE	0	APHID
12. VARIETI	ES MOST CLOSELY	Y RESEMBLING	THAT SUBMITTED FOR	THE CHARACTERS GI	VEN:	•	
CHARAC	TER		VARIETY	CHARACTER		VAF	RIETY
Maturity Plant Typ				Kernel Type Quality (Edible	<u> </u>		
Ear Type				Usage			
REFERE	U.S. Department Ag Corn: Culture, Proc Emerson, R.A., G.W The Mutants of Mai	cessing, Products. J. Beadle, and A.Cze. 1968. Crop S	1970 Avi Publishing Com		•		35.
, *				nbred Lines — PhD. Thesi			
COMMEN	ITS: (Temp Max	ximum + Tem	p Minimum)/2 -	50 = Heat Units	s (Fahre	nheit Tem	perature)

EXHIBIT E

Statement of the Basis of Applicant's Ownership

The inbred line 779 was developed by Northrup King Co. corn breeding staff from germplasm cited in Exhibit A of the application. Northrup King believes this inbred line is novel as defined in the Plant Variety Protection Act, and, therefore, that Northrup King is the sole owner of the variety.

State of Delaware

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "NORTHRUP KING CO.", CHANGING ITS NAME FROM "NORTHRUP KING CO." TO "NOVARTIS SEEDS, INC.", FILED IN THIS DELICE ON THE THIRTIETH DAY OF DECEMBER, A.D. 1997, AN 9 O'BLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE WAS BEEN FORWARDED TO THE NEW WASTLE COMPAY RECORDS OF DECEMENTOR RECORDING.



Edward J. Freel. Secretary of State

0829320 **88100**

960389892

AUTHENTICATION:

8267947

DATE:

12-31-96

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF INCORPORATION

OF

NORTHRUP KING CO.

It is certified that:

- 1. The name of the corporation (hereinafter called the "Corporation") is Northrup King Co.
- 2. The Certificate of Incorporation of the Corporation is hereby amended by striking out Section 1 thereof and by substituting in lieu of said Section the following new Section.
 - 1. The name of the Corporation is Novartis Seeds, Inc.
- 3. The amendment of the certificate of incorporation herein certified has been duly adopted and written consent has been given in accordance with the provisions of Sections 228 and 242 of the General Corporation Law of the State of Delaware.
 - 4. The effective date of the amendment herein certified shall be January 1,1997.

Signed on December 27, 1996.

Edward C. Resler

Vice President & Secretary

14:08